ECS Configuration Change Request

1. Originator Willard Selph	2. Log Date: **09/03/03**	3. CCR #: **03-0607**	4. Rev: —	5. Tel: 301-925-0368	6. Rm #: 3109D	7. Dept. DP

8. CCR Title: Release TE Solaris_8_V880_patches.tar.gz to LPDAAC

9. Originator Signature/Date **Willard Selph** **/s/** **09/03/03**		10. Class II	11. Type: CCR	12. Need Date: 09/03/03
13. Office Manager Signature/Date **Mary S. Armstrong** **/s/** **09/03/03**		14. Category of Change: Other		15. Priority: (If "Emergency" fill in Block 27). Emergency
16. Documentation/Drawings Impacted *(Review and submit checklist):*		17. Schedule Impact:	18. CI(s) Affected: New Sun V880 hosts	

19. Release Affected by this Change: N/A	20. Date due to Customer: 09/03/03	21. Estimated Cost: None - Under 100K

22. Source Reference: ☐NCR (attach) ☐Action Item ☐Tech Ref. ☐GSFC ☐Other:

23. Problem: (use additional Sheets if necessary)
Solaris baseline requires new Sun V880 patch to be installed on new Sun V880 hosts.

24. Proposed Solution: (use additional sheets if necessary)
Release of the Sun V880 patch to LPDAAC (pathfinder DAAC for Sun Consolidation). This patch is required for the new Sun V880. LPDAAC is the pathfinder DAAC and needs to install this patch on the new hosts.

25. Alternate Solution: (use additional sheets if necessary)
N/A

26. Consequences if Change(s) are not approved: (use additional sheets if necessary)
The new Sun V880 hosts would not run properly on the Solaris baseline that is currently implemented on the ECS baseline.

27. Justification for Emergency (If Block 15 is "Emergency"):
LPDAAC is the pathfinder for the Sun Consolidation task. Without this patch, the DAAC would not be able to fulfill the obligations that is established with the duties of the path finder DAAC.

28. Site(s) Affected: ☐EDF ☐PVC ☐VATC ☒EDC ☐ GSFC ☐LaRC ☐NSIDC ☐SMC ☐AK ☐JPL
☐EOC ☐ IDG Test Cell ☐Other

29. Board Comments:	30. Work Assigned To:	31. CCR Closed Date:

32. EDF/SCDV CCB Chair (Sign/Date):	Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS
33. M&O CCB Chair (Sign/Date): **Debra Stepp** **/s/** **09/03/03**	Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS
34. ECS CCB Chair (Sign/Date):	Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ESDIS

CM01JA00 Revised 8/2/02   ECS/EDF/SCDV/M&O

ADDITIONAL SHEET

CCR #: 03-0607   Rev: — Originator: Willard Selph

Telephone: 301-925-0368   **Office:** 3109D

Title of Change: Release TE Solaris_8_V880_patches.tar.gz to LPDAAC

For clarification and verification of the installation procedures see attached document. The attached document is the same procedures as below but have been formatted for clearer content.

Activity Description

Tar File Listing
The following is a list of the tar files in the delivery package:
Checksum   Size   Filename
3509265976   35524515   Solaris_8_V880_patches.tar.gz

PATCHES INCLUDED IN THIS BUNDLE:

110849-12:   SunOS 5.8: PICL support for SUNW,Sun-Fire-880
111095-13:   SunOS 5.8: fctl/fp/fcp/usoc driver patch
111096-06:   SunOS 5.8: fcip driver patch
111097-12:   SunOS 5.8: qlc driver patch
111413-10:   SunOS 5.8: luxadm, liba5k and libg_fc patch
111846-06:   SunOS 5.8: cfgadm fp plug-in library patch
109962-07:   Hardware, FC-AL Disks: Download program and FC-AL Disk Drive firmware
112186-08:   Hardware/PROM: Sun Fire V880 Flash PROM Update

Prerequisites (activities, materials, accounts, privileges, etc)

Estimated Installation Time: Initial jumpstart installation for a Sun-Fire V880 is 2 hours for an experienced operator, and 45 minutes to do the V880 patch upgrade.

Ensure a full Legato Networker backup of the root (/) file system for all clients has been performed prior to patch cluster installation. In case patch cluster backout is required, restoring the root (/) file system from tape will be the most expeditious means for recovery.

The client password file, /etc/passwd, must contain a "nobody" account or the patch installation will error and fail. Confirm the existence of the "nobody" account before scheduling the patch installation via the at job.

Operating system must be at Solaris 8 Release 02/02. Determine the release by typing the following:
cat /etc/release

NOTE: For machines whose operating systems are not currently at Solaris 8 Release 02/02, reference the "Sun Solaris 8 OS Bundle Upgrade for the ECS Project" document (914-TDA-195-Rev01) for OS upgrade instructions. Using the new driver file included in this delivery or adding this delivery's finish scripts to an existing driver will install the new recommended patches automatically after the OS upgrade completes. See JumpStart Server Configuration Files below.

Install/Backout Instructions

Initial Installation of Solaris 8 2/02 with Recommended patches on the Sun-Fire V880.
Updating your Solaris 8 Jumpstart server with the V880 recommended patches.
1. Copy or ftp patch distribution file, Solaris_8_V880_patches.tar.gz, into the /var/tmp directory of the Solaris 8 JumpStart server.
2. Extract compressed tar file and confirm the existence of 6 files:
    # gunzip Solaris_8_V880_patches.tar.gz | tar –xvf -
        ECS_initial_11-11_V880.driver
        ECS_upgrade_11-11_V880.driver
        V880_Solaris_8_Recommended_2003-08-12.tar.gz
        install-V880-Solaris-8-Recommended-2003-08-12.finish
        at_V880.sh
        S99inst-patches-V880
3. Extract compressed V880 recommended bundle into the /data/jumpstart/Patches directory of the Solaris 8 JumpStart server.

gunzip –c V880_Solaris_8_Recommended_2003-08-12.tar.gz | (cd /data/jumpstart/Patches; tar –xvf -)

 JumpStart Server Configuration Files

4. The new patch clusters should be added to the JumpStart server configuration to enable automatic installation after Solaris 8 OS upgrades or initial installs. Copy the finish scripts and template driver file into the jumpstart directory hierarchy. The template driver contains an example of how to call the new patch finish scripts.
   # cd /var/tmp
   # cp –p ECS_intial_11-11_V880.driver /data/jumpstart/Drivers
   # cp –p ECS_upgrade_11-11_V880.driver /data/jumpstart/Drivers
   # cp –p install-V880-Solaris-8-Recommended-2003-08-12.finish /data/jumpstart/Finish
   # cp –p S99inst-patches-V880 /data/jumpstart/Patches
   # cp –p at_V880.sh /data/jumpstart/Patches

5. After the Jumpstart server is updated with the new V880 recommended patches and configuration files reference the "Sun Solaris 8 OS Bundle Upgrade for the ECS Project" document (914-TDA-195-Rev01) for OS initial install instructions. Also, make sure to clean up /var/tmp by removed the temporary files that were moved to the Jumpstart server.

Solaris 8 Sun-Fire V880 recommended patch upgrade instructions (Sun-Fire V880 ONLY)

NOTE: Use these instructions only if an existing Sun-Fire V880 is installed with the latest Solaris 8 2/02.
Sun-Fire V880 Client Patch Installation

1. Two scripts from the Solaris 8 Jumpstart server will need to be copied into /var/tmp directory on the local client host, at_V880.sh and S99inst-patches-V880. As root, edit the S99inst-patches script by setting the commented out variables listed below appropriately for your site. Make sure the leading '#' characters are removed from the variables.
   # vi /var/tmp/S99inst-patches-V880

   JS_IP=""   (Enter IP address of JumpStart or patch distribution server)
   PATCHDIR=${JS_IP}:/data/jumpstart/Patches   (Change only if necessary)
   RCPT=""   (Enter email address(es) for script notifications)
   MAILSRVR=""   (Enter local mail server hostname)

2. Copy both scripts, at_V880.sh and S99inst-patches-V880, into an automounted directory (such as /home/{userid} or /net/${JS_IP}/data/jumpstart/Patches) that can be seen from any Sun host on the local network.

3. Login to Sun client as root. Copy properly edited S99inst-patches-V880 script from automounted directory into local /etc/rcS.d directory. Make sure the script name, S99inst-patches-V880, is not changed. If changed, the script will not remove itself, causing the system to continually attempt to install patches and reboot.

4. The at.sh script will confirm the existence of the /etc/rcS.d/ S99inst-patches-V880 script and check that all required variables are set before creating the at job to reboot the system into single-user mode. This at job provides the ability to install the patches, automatically and unattended, during off-hours. Run the at.sh_V880 script passing the time/day as arguments. Any errors from the at.sh_V880 script are saved in the /var/tmp/patch.log file. The script accepts the same arguments as the Solaris "at" command. The following example will create an at job to reboot the system single-user at 2am Wednesday.
   # /{automounted_dir}/at.sh 0200 Wednesday
        commands will be executed using /sbin/sh
        job 1043218800.a at Wed Jan 22 02:00 2003

5. The system will reboot in single-user mode, install the patches, then reboot back to multi-user mode. The patch installation log Sun_V880_Solaris_8_Recommended_log, can be viewed in the /var/sadm/install_data directory. The script log is located in /var/tmp/patch.log.

Backout
The root (/) file systems can be restored from Legato Networker full backup tapes created prior to patch cluster installation.